

Applications of Nanotechnology presents the subject with the aim of providing clear and sufficient description on applications of nanotechnology in photovoltaics, batteries, fuel cells, energy transmission, water purification, defense, green building, automobile, aerospace, electronics, computer engineering, and photonics. This book is primarily intended to be a textbook for Bachelor Degree students of Science, Engineering, and Technology. This book has a special role to play in the curriculum of all branches of Science, Engineering, and Technology and will hopefully present valuable guidelines to young graduates. Efforts has been made to cover the applications of nanoscience and nanotechnology.

Applications of Nanotechnology



Prasad Puthiyillam

Applications of Nanotechnology



Dr. Prasad P. is currently working as Professor and Head in the Department of Nano Technology, SIT, Srinivas Group of Institutions, Mangaluru, Karnataka, India. He played a key role in establishing Bachelor Degree in Nano Technology in Karnataka, India. His research interest includes Nanomaterials, Biocompatible Polymers/Blends, Nanocomposites.



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Nanotechnology is emerging as a new field enabling the creation and application of materials, devices, and systems at atomic and molecular levels and the exploitation of novel properties that emerge at the nanometer scale. Many areas of biomedical engineering are expected to benefit from nanotechnology including cancer diagnosis and therapy, medical implants, tissue engineering etc. This book includes the concepts of synthesis and characterisation of nano materials, impact of nanotechnology on surgery, sensing applications, nano-artificial cells and bionanomachines, nano particles in drug delivery devices. This book has a special role to play in the curriculum of all branches of Science, Engineering, and Technology and will hopefully present valuable guidelines to young graduates.



Abhinaya Nellerichale

Nanotechnology in Biomedical Engineering



Prof. Abhinaya Nellerichale B.Tech, M.Tech has completed her B.Tech in Biomedical and M.Tech in Medical instrumentation from Sathyabama University, India. She is currently working as Asst. Prof., Dept. of Nanotechnology, SIT, Mangalore. Her research areas include application of nanomaterials in agricultural, biomedical and environmental sectors.



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Applications of Bio-Nanotechnology presents the subject with the aim of providing clear and sufficient description on functional principles of bio-nanomachines, structural principles of bio-nanomachines, descriptions on bio-nanomachines, biomedical applications, and the future and predicted applications of bio-nanotechnology. This book is primarily intended to be a text book for Bachelor Degree and Master Degree students of Science, Engineering, and Technology. This book has a special role to play in the curriculum of all branches of Science, Engineering, and Technology, and will hopefully present valuable guidelines to young graduates.

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Applications of Bio-Nanotechnology



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